BRUHAT BENGALURU MAHANAGARA PALIKE

Name of work :- Development of Yelahanka Govt Degree collage and Ayurvedic Hospital and Providing Grill Fencing and other developmental works to Rajiv Gandhi park, tree park, Nethaji park, Basaveshwara park, judicial layout park and someshwara hill of Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants PACKAGE No-01

Rate Analysis

CSR: 2021-22

Sl No	Description of work	Unit	Page No.	Item No.	Basic/Date Rate	AW 10%	Formwork	Lead & Lift	Sub Total	TP(+4.1%)	Grand Total
5	Distempering with oil bound washable distemper of approved brand and manufacture to give an even shade :New work (two coats) over and including water thinnable priming coat with cement primer after thoroughly brooming the surface to remove all dirt, dust, mortar drops and foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour complete as per specifications and as per directions of Engineer-in-charge.s (Volume II, Item No. 8.25 , Page No.45)	sqm	45	8.3	105.00	10.50			115.50	4.74	120.24
45	Earth work excavation for Foundation by mechanical means for all works & depth upto 3 m, as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, including dressing of excavated surfaces, disposing off or levelling the excavated earth or sorting & stacking the selected earth for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools, usage of machinery & other appurtenaces required to complete the work In all kinds of soils Depth upto 3 m (Vol I , P.No 8 Sl.No 1.14.1)	Cum	8	1.14.1	73.00	7.30			80.30	3.29	83.59

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Sl No	Description of work	Unit	Page No.	Item No.	Basic/Date Rate	AW 10%	Formwork	Lead & Lift	Sub Total	TP(+4.1%)	Grand Total
49	Providing and laying in position plain cement concrete for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork shall be paid separately) Mix 1:4:8(M5) Using 40 mm nominal size graded crushed coarse aggregates (Vol I , P.No 15 Sl.No 2.1.2)	Cum	15	2.1.2	5206.00	520.60			5726.60	234.79	5961.39
54	Loading and Unloading of Stone Boulder/Stone aggregates/ Sand/Kankar/Moorum. (Tipper 5.5 m3) (Vol III , P.No 3 Item No. 1.1)	Cum	3	1.1	118.00	17.25		54.50	189.75	7.78	197.53
64	Earth work in surface excavation for stripping, seating of bund, Road way by manual means for lowering & levelling the ground for all works other than foundation & depth in Ordinary rock and soft rock upto 300mm depth as per drawing and technical specifications, including setting out, barricading, caution lights, including dressing of excavated surfaces, disposing off or levelling the excavated stuff or sorting & stacking the selected stuff for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools, usage& other appurtenances required to complete the work. (Vol I , P.No 5 Item No. 1.2)	Cum	5	1.2	452.00	45.20			497.20	20.39	517.59

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Sl No	Description of work	Unit	Page No.	Item No.	Basic/Date Rate	AW 10%	Formwork	Lead & Lift	Sub Total	TP(+4.1%)	Grand Total
66	Construction of dry lean cement concrete Sub-base over a prepared sub-grade with coarse and fine aggregate conforming to IS: 383, the size of coarse aggregate not exceeding 25 mm, aggregate cement ratio not to exceed 15:1, aggregate gradation after blending to be as per table 600-1, cement content not to be less than 150 kg/ m3, optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, laid with a paver with electronic sensor, compacting with 8-10 t vibratory roller, finishing and curing. (Volume III , Item No : 6.1 , Page No : 43)	Cum	43	6.1	4025.00	402.50			4427.50	181.53	4609.03
71	Earth work excavation by manual means for drains,canals, waste weir draft, approach channels, key trench, foundation of Bridges and such similar works, as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, excavated surface leveled and sides neatly dressed disposing off or leveling the excavated stuff or sorting & stacking the selected stuff for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools, usage & other appurtenances required to complete the work. In ordinary/soft rock without blasting upto 1.5 m depth (Volume I , Item No. 1.5.1 , Page No. 6)	Cum	6	1.5.1	229.00	22.90			251.90	10.33	262.23
73	Providing Coursed rubble masonry (second sort) with hard stone in foundation & plinth with Cement mortar 1:6 (1 cement : 6 coarse sand) (Volume II , Item No. 5.3 , Page No. 9)	sqm	9	5.3	5198.00	519.80			5717.80	234.43	5952.23

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Sl No	Description of work	Unit	Page No.	Item No.	Basic/Date Rate	AW 10%	Formwork	Lead & Lift	Sub Total	TP(+4.1%)	Grand Total
80	Providing and Filling in foundation with granite / trap broken metal 100mm. and down size, with approved sand including hand packing, ramming, watering, including cost of all materials and labour with all lead and lift. complete as per specifications. (Volume-2, It. No. 6.4 of PWD SR 2021-22)	Cum		6.4	2561.00	256.10			2817.10	115.50	2932.60
81	Providing and laying in position Reinforced cement concrete for all Sub structures of building, Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necesary, including all lead & lifts, cost of all materials of quality, confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork to be paid separately) M25 Design Mix Using 20 mm nominal size graded crushed coarse aggregates (Volume-1, Pg. No. 16 & 17, It. No. 2.4.3 of PWD SR 2021-22)	Cum	16&17	2.4.3	5992.00	599.20	659.12		7250.32	297.26	7547.58
88	High quality spot light, Power : 12W, CCT : RGBW, Protection Rating : IP65, additional wall mount yoke arrangements for fixing the lights. Beam Angle 15°/25°, Body : Die casted / extruded aluminium, Optics Designed to minimize hot spots. Power Input : DC 110-230V,50Hz. Code: AK SL 12 RGBW / Equivalent	Each	DATA RATE		8500.00				8500.00	348.50	8848.50

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Sl No	Description of work	Unit	Page No.	Item No.	Basic/Date Rate	AW 10%	Formwork	Lead & Lift	Sub Total	TP(+4.1%)	Grand Total
90	High quality Linear Profile light, Protection Rating : IP65,Power loopin and loop out for easy of connections. Power : 15W, 17mm CCT : RGBW. Beam Angle 120°. Body : Extruded aluminium. Power Input : DC 24V (without DC Driver) Code: AK IP LW 15 RGB / Equivalent	Each	DATA RATE		4574.00				4574.00	187.53	4761.53
95	Flexible Multicore Cable 3C X 1.5Sq.mm	M	DATA RATE		27.50				27.50	1.13	28.63
109	Demolishing cement concrete manually/ by mechanical means including disposal of material to the appropriate disposal area as per direction of Engineer-in-charge. (Volume II , Item No. 19.2.1 , Page No. 163)	Cum	163	19.2.1	1290.00	129.00			1419.00	58.18	1477.18
110	Dismantling tile work in floors and roofs laid in cement mortar including stacking material to the appropriate disposal area as per direction of Engineer-in-charge. For thickness of tiles 10 mm to 25 mm. Item No 19.22 Page no 165	Cum	165	19.2	37.00	3.70			40.70	1.67	42.37

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Sl No	Description of work	Unit	Page No.	Item No.	Basic/Date Rate	AW 10%	Formwork	Lead & Lift	Sub Total	TP(+4.1%)	Grand Total
113	Earth work excavation by manual means for drains,canals, waste weir, draft, approach channels, key trenches, foundation of bridges and such simillar works in all kinds of soils , as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter, excavated surface leveled and sides neatly dressed disposing off the excavated stuff or sorting & stacking the selected stuff for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools & other appurtenaces required to complete the work. Depth exceeding 1.5m, but not exceeding 3 m. (Volume I , Item No. 1.5.1 , Page No. 6)	Cum	6	1.5.1	229.00	22.90			251.90	10.33	262.23
118	Providing and fixing M.S. grills of required pattern in frames of win- dows etc. with M.S. flats, square or round bars etc. including priming coat with approved steel primer all complete. Fixed to openings / wooden frames with rawl plugs screws etc. Item No : 11.34B Page No.85	Cum	85	11.34B	143.00	14.30			157.30	6.45	163.75
150	Providing and laying Hassan Green / River Pink granite flooring for staircase, treads and rises using pre polished 20 mm thick water cut green Granite slab laid over existing cement concrete bed in CM 1:3, average 20mm thick including full rounding for nosing , cutting 3 line grooves not more than 2 mm wide for antiskidding, including cost of all materials,mortar,labour,curing etc.,complete as per Specificationand directions of the Engineer in charge.(Item No 14.51, Page no 110 of PWD SR 2018-19)	sqm	110	14.51	4456.00	445.60			4901.60	200.97	5102.57

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Sl No	Description of work	Unit	Page No.	Item No.	Basic/Date Rate	AW 10%	Formwork	Lead & Lift	Sub Total	TP(+4.1%)	Grand Total
EX-1	Providing and fixing of Aluminium composite panel of approved make and colour for wall cladding for Brick/Rcc/stone walls & coloumns/ beams with necessary aluminium frame works at required level made out of 50x25x4mm C section or equivalent. The panel should consist of 3mm thick non-halogenated FR grade mineral based polymer (2 hrs fire resistance as per ASTM E119-12 and clause B, S1, do as per ENT 13501-1sandwiched between 0.50 skins thick aluminium sheet making a total panel thickness of 4mm. The surfaces will be finished with PVDF based coating on topsides and service coating on reverse sides would be in polyester paint. The system shall be fixed using GI brackets, aluminium L cleats and stainless steel bolts and nuts complete with spring washer and cap nuts and all other necessary accessories, sealing shall be done with necessary rods etc., complete (KWPD 2021-22, V-II, Item No.10.15.1, Page No.71)	sqm	**71**	**10.15.1**	**3939.00**	**393.90**			**4332.90**	**177.65**	**4510.55**

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Sl No	Description of work	Unit	Page No.	Item No.	Basic/Date Rate	AW 10%	Formwork	Lead & Lift	Sub Total	TP(+4.1%)	Grand Total
EX-2	Providing and constructing un-reinforced plain cement concrete pavement, thickness as per design, over a prepared sub base, with 43 grade cement or any other type as per Clause 1501.2.2 M30 (Grade), coarse and fine aggregates conforming to IS:383, maximum size of coarse aggregate not exceeding 25 mm, mixed in a concrete mixer of not less than 0.2 cum capacity and appropriate weigh batcher using approved mix design, laid in approved fixed side formwork (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the formwork as per drawing), spreading the concrete with shovels, rakes, compacted using needle, screed and plate vibrators and finished in continuous operation including construction joints, , primer, sealant , curing of concrete slabs for 14days, and water finishing to lines and grade as per drawing and technical specification clause 1501 with all lead, lifts, loading & unloading charges, cost and conveyance of all materials, labour, equipments etc., complete. as per the directions of the Engineer-in-charge of the work.(KWPD 2021-22, V-III, Item No.120.29Page No.138) Issue Rate 04-01-2023	cum	138	20.3	6512.00	651.20			7163.20	293.69	7456.89
Ex-3	Name Board (Data Rate Approved)		DATA RATE		185.00				185.00	7.59	192.59

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Sl No	Description of work	Unit	Page No.	Item No.	Basic/Date Rate	AW 10%	Formwork	Lead & Lift	Sub Total	TP(+4.1%)	Grand Total
EX-4	High quality long throw multi color wash light, Protection Rating : IP65, Additional wall mount yoke arrangements for fixing the lights. Power consumption : 150W, CCT : RGBW, Beam Angle 25° / 45°, Control : DMX512, Die casted / extruded aluminium body, Optics Designed to minimize hot spots & fringing in color mixing applications. Power Input : DC 24V (without DC Driver) Code: AK WASH 150 RGBW / Equivalent	Nos	DATA RATE		33756.00				33756.00	1384.00	35140.00
EX-5	Power Distribution Board made up of MS Sheet metal fabricated housing black powder coated and ivery connectors for the internal terminations and external outgoing connecting points, fibre / brass glands of suitable size fitted MCB control for outgoing circuits. - 12 Nos of 6/10A SP Outgoing MCB's. - 1No of 32A TPN Incoming MCB.	Nos	DATA RATE		51000.00				51000.00	2091.00	53091.00
EX-6	Project Lighting Design, Show programming, Project Consulting, Installation, Commissioning, Client Team Training for Daily Operation & Final Handove	Nos	DATA RATE		475000.00				475000.00	19475.00	494475.00

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Sl No	Description of work	Unit	Page No.	Item No.	Basic/Date Rate	AW 10%	Formwork	Lead & Lift	Sub Total	TP(+4.1%)	Grand Total
EX-7	Providing and fixing double scaffolding system (cup lock type) on the exterior side of building/structure, upto 25 metre height, above ground level, including additional rows of scaffolding in stepped manner as per requirement of site, made with 40mm dia M.S. tube, placed 1.5 metre centre to centre, horizontal & vertical tubes joint with cup & lock system with M.S. Tubes, M.S. tube challis, M.S. clamps and staircase system in the scaffolding for working platform etc. and maintaining it in a serviceable condition for execution of work of cleaning and/ or pointing and/ or applying chemical and removing it thereafter. The scaffolding system shall be stiffened with bracings, runners, connecting with the building etc, wherever required, if feasible, for inspection of work at required locations with essential safety features for the workmen etc., complete as per directions and approval of Engineer-in-charge. (Volume II Item -21.2 Pg no 189)	Sqm	21.2	189	249.00	24.90			273.90	11.23	285.13
EX-8	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade :One coats on old work as per specifications and as per directions of Engineer in charge.	sqm	8.64	52	59.00	5.90			64.90	2.66	67.56

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Sl No	Description of work	Unit	Page No.	Item No.	Basic/Date Rate	AW 10%	Formwork	Lead & Lift	Sub Total	TP(+4.1%)	Grand Total
EX-9	Providing and fixing precoated galvanised iron profile sheets (size, shape and pitch of corrugation as approved by Engineer-in-charge) 0.50 mm (+ 0.05 %) total coated thickness with zinc coating 120 grams per m2 as per IS: 277, in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns. Sheet should have protective guard film of 25 microns minimum to avoid scratches during transportation and should be supplied in single length upto 12 m or as desired by Engineer-in-charge. The sheet shall be fixed using self drilling/self tapping screws of size (5.5x 55 mm) with EPDM seal, complete upto any pitch in horizontal/ vertical or curved surfaces, excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required. (Volume II Item -7.38 Pg no 26)	Sqm	7.38	26	556.00	55.60			611.60	25.08	636.68

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Sl No	Description of work	Unit	Page No.	Item No.	Basic/Date Rate	AW 10%	Formwork	Lead & Lift	Sub Total	TP(+4.1%)	Grand Total
EX-10	Supply, Installation, Testing and Commissioning of LED RGB/RGBW floodlighting luminaire for facade lighting with Die-cast aluminium housing, powder-coated finish, of following wattage. Luminaire shall be capable of producing dynamic color changing light for with 16 million colors by DMX/Ethernet based control. The beam angle of the fitting shall be narrow, medium, wide or asymmetric as per the requirement. Luminaire shall be complete with driver and capable of operating at line voltage without any separate power supply from 100-270 V AC, 50 Hz with power factor > 0.9. Fixture shall be suitable to operate at an ambient temperature range of - 10°C to +50°C and shall be IP 65 and IK 06 rated. Lifetime shall be at least L70:50000 burning hours at 50°C. Luminaire shall be conforming to BIS (IS 10322) and shall be complete with all necessary accessories required for proper working of fixture including weather proof connection cables, water proof connectors etc. as required.(30v)	Nos			20019.00				20019.00	820.78	20839.78

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Sl No	Description of work	Unit	Page No.	Item No.	Basic/Date Rate	AW 10%	Formwork	Lead & Lift	Sub Total	TP(+4.1%)	Grand Total
EX-11	Supply, Installation, Testing and Commissioning of LED RGB/RGBW Linear Wall Washer luminaire for Facade lighting with aluminium extruded housing, of following wattage. Luminaire shall be capable of producing dynamic color changing light with 16 million colors by DMX/Ethernet based control. The beam angle of the fitting shall be narrow, medium, wide or asymmetric as per the requirement. Luminaire shall be complete with driver and capable of operating at line voltage without any separate power supply from 100 to 270 V AC, 50 Hz, power factor > 0.9. Fixture shall be suitable to operate at ambient temperature range of -10°C to +50°C and shall be IP 65 and IK06 rated. Lifetime should be at least L70:50000 burning hours at 50°C. Luminaire shall be conforming to BIS and shall be complete with all necessary accessories required for proper working of fixture including weather proof connection cables, water proof connectors etc. as required.(40v)	Nos			39050.00				39050.00	1601.05	40651.05

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